

Given the information in #1-5 determine the following for each question:

image distance

magnification

state whether the image is real or virtual

state whether the image is upright or inverted

1)  $f=10\text{cm}$ ,  $d_o=10\text{cm}$  (concave mirror)

2)  $f=15\text{cm}$ ,  $d_o=10\text{cm}$  (concave mirror)

3)  $f=20\text{cm}$ ,  $d_o=40\text{cm}$  (concave mirror)

4)  $f=5\text{cm}$ ,  $d_o=5\text{cm}$  (convex mirror)

5)  $f=10\text{cm}$ ,  $d_o=1\text{cm}$  (convex mirror)